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## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 22.04.1998 Bulletin 1998/17

(51) Int CL<sup>6</sup>: **H01L 51/20**, H01L 51/30, H01L 27/12

- (43) Date of publication A2: 23.07.1997 Bulletin 1997/30
- (21) Application number: 97300063.1
- (22) Date of filing: 07.01.1997
- (84) Designated Contracting States: **DE FR GB**
- (30) Priority: 16.01.1996 US 587426
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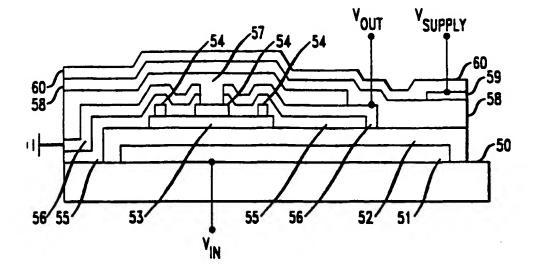
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## (54) Circuit comprising complementary thin film transistors

(57) In preferred embodiments of the invention, the n-channel inorganic TFTs have an amorphous Si active layer (53), and the p-channel organic TFTs have  $\alpha$ -hexathienylene ( $\alpha$  - 6T) active layer (58). Complementary

inverters according to the invention are disclosed, as is an exemplary processing sequence that can be used to manufacture integrated complementary inverters and other complementary circuits according to the invention.

## FIG. 9





## **EUROPEAN SEARCH REPORT**

Application Number EP 97 30 0063

Category		dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.C1.6)
P,X		: "Hybrid omplementary circuits" FERS, 15 APRIL 1996, SN 0003-6951, 002055715	1,2,4-6	H01L51/20 H01L51/30 H01L27/12
E	* column 2, line 3	5 612 228 A (SHIEH CHAN-LONG ET AL) clumn 2, line 3 - column 2, line 30; ims 1-18; figures 5,6 *		
A	PATENT ABSTRACTS OF JAPAN vol. 014, no. 016 (E-872), 12 January 1989 & JP 01 259563 A (MITSUBISHI ELECTRIC CORP), 17 October 1989, * abstract *		1,2,4	
D,A	DODABALAPUR A ET AL HETEROSTRUCTURE FIE SCIENCE, vol. 269, 15 Septem pages 1560-1562, XP	LD-EFFECT TRANSISTORS" ber 1995,		TECHNICAL FIELDS SEARCHED (Int.Cl.6) H01L
	The present search report has	been drawn up for all claims		
		Date of completion of the search	Examiner	
	THE HAGUE	16 February 1998	Kör	nigstein, C
X : particularly relevant if taken alone after the fill Y : particularly relevant if combined with another D : document of document of the same category L : document of a lechnological background		E : earlier patent do after the filing da D : document cited i L : document cited to a comment cited to a co	ed in the application	

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